

Testing Status for RV Refueling Systems
refueling systems with metal fuel tanks (3 total)
plastic fuel tanks (2 total)

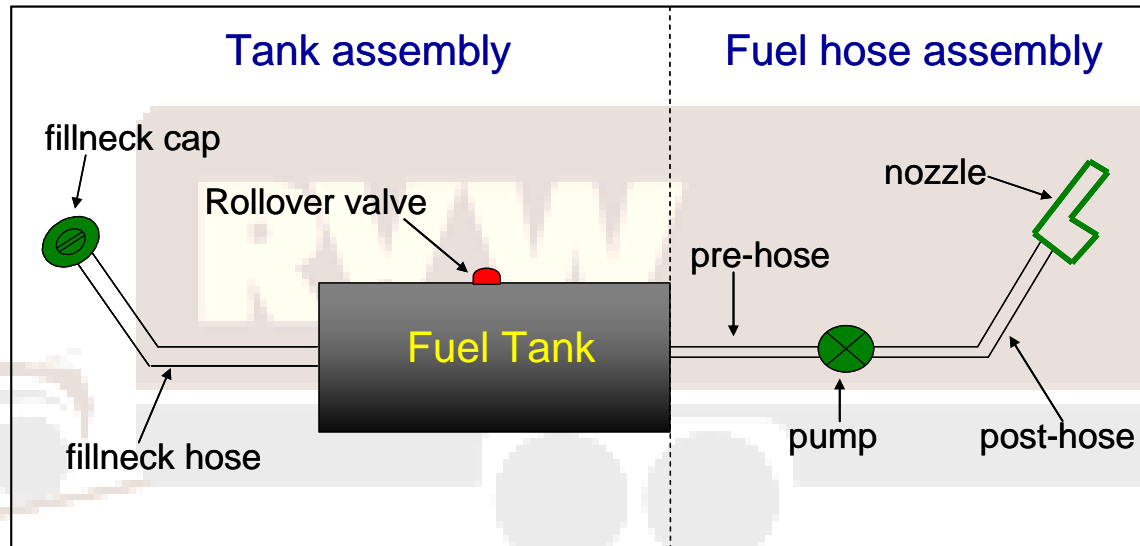


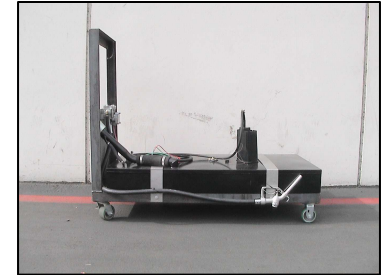
Figure 1. Schematic structure of RV refueling systems.

Refueling system #1 with metal tank:

- Background test (✓)
- Presoak test of the refueling system (✓)
- Postsoak test of the refueling system (✓)
- Controlled technology (canister only) test of the refueling system (4 times) (✓)
- Test of the tank assembly only (✓)
- Test on the fillneck hose only (X)
- Test on the hose assembly only (X)
- Pressure measurement inside the refueling system during diurnal test (X)

Literature data: Gasoline RVP 7, vapor pressure P_{VA} (psi)=3.5~7.4

- Controlled technology test of the refueling system (X)

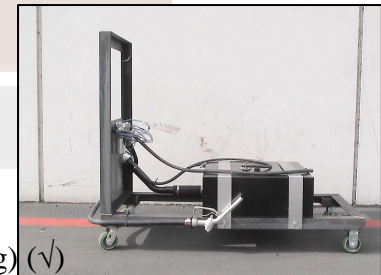


Refueling system #2 with metal tank:

- Background test (✓)
- Presoak test of the refueling system (✓)
- Postsoak test of the refueling system (✓)
- Carbon canister passive purge monitoring test (✓)

1. Used carbon canister monitoring (see attachment 1, 2 before and after canister saturation monitoring) (✓)
2. Brand new carbon canister monitoring (see attachment 3, 4 before and after canister saturation monitoring) (✓)
3. Gravimetric measurement on canister efficiency (X)

- Test on the hose assembly only (X)
- Test on the tank assembly only (X)
- Test on the fillneck hose only (X)
- Controlled technology test of the refueling system (X)



Xu's test schedule of RV refueling system

Refueling system #3 with metal tank:

- Background test (✓)
- Presoak test of the refueling system (✓)
- Postsoak test of the refueling system (✓)
- Test on the hose assembly only (X)
- Test on the tank assembly only (X)
- Test on the fillneck hose only (X)
- Controlled technology test of the refueling system (X)



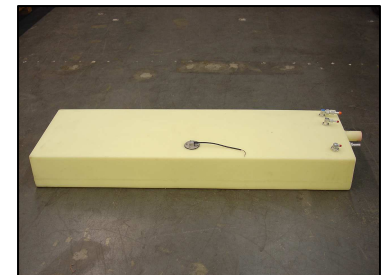
Plastic fuel tank #4:

- Background test (✓)
- Presoak test on the tank (X)
- Postsoak test on the tank (X)
- Controlled technology test of the fuel tank (X)



Plastic fuel tank #5:

- Background test (✓)
- Presoak test of the tank (X)
- Postsoak test of the tank (X)
- Controlled technology test of the fuel tank (X)



(✓) test done,
(X) test not done